



ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

| Title of Invention | Model for Neurodegenerative Diseases Involving Amyloid Accumulation | | | | | | | | | |
|---|--|------------|------------|------------------|------|--|--|--|--|--|
| Application Number: | 09/961381  | | | | | | | | | |
| Confirmation Number: | 7154 | | | | | | | | | |
| First Named Applicant: | Gary Lynch | | | | | | | | | |
| Attorney Docket Number: | 1891.0040001 | | | | | | | | | |
| Art Unit: | 1632 | | | | | | | | | |
| Examiner: | Deborah Crouch | | | | | | | | | |
| Search string: | (4366241 or 4376110 or 4517288 or 4837168 or 5010175 or 5464764 or 5539083 or 5627059 or 5767337 or 5830678 or 5877399 or 6046381 or 6120991 or 20020048746).pn. | | | | | | | | | |
| US Patent Documents | | | | | | | | | | |
| Note: Applicant is not required to submit a paper copy of cited US Patent Documents | | | | | | | | | | |
| init. | Cite.No. | Patent No. | Date | Patentee | Kind | | | | | |
| dc | 1 | 4366241 | 1982-12-28 | Tom et al. | | | | | | |
| | 2 | 4376110 | 1983-03-08 | David et al. | | | | | | |
| | 3 | 4517288 | 1985-05-14 | Giegel et al. | | | | | | |
| | 4 | 4837168 | 1989-06-06 | de Jaeger et al. | | | | | | |
| | 5 | 5010175 | 1991-04-23 | Rutter et al. | | | | | | |
| | 6 | 5464764 | 1995-11-07 | Capecchi et al. | | | | | | |
| | 7 | 5539083 | 1996-07-23 | Cook et al. | | | | | | |
| | 8 | 5627059 | 1997-05-06 | Capecchi et al. | | | | | | |
| | 9 | 5767337 | 1998-06-16 | Roses et al. | | | | | | |
| | 10 | 5830678 | 1998-11-03 | Carter | | | | | | |
| | 11 | 5877399 | 1999-03-02 | Hsiao et al. | | | | | | |
| | 12 | 6046381 | 2000-04-04 | Mucke et al. | | | | | | |
| dc | 13 | 6120991 | 2000-09-19 | Carter et al. | | | | | | |

US Published Applications



Note: Applicant is not required to submit a paper copy of cited US Published Applications

| init | Cite.No. | Pub. No. | Date | Applicant | Kind | Class | Subclass |
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| d | 1 | 20020048746 | 2002-04-25 | Lynch et al. | | | |

Signature

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| Examiner Name | Date |
| <i>Deborah Cronin</i> | <i>June 28, 2004</i> |



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| FORM PTO-1449 FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT | | ATTY. DOCKET NO. 1819.0040001/MAC/LBB | APPLICATION NO. 09/961,381 |
| | | APPLICANT Lynch et al. FILING DATE September 25, 2001 | |
| | | GROUP 1632 | |

U. S. PATENT DOCUMENTS

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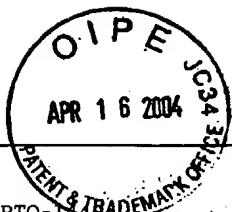
| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
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| <i>dc</i> | AL1 | WO 92/00091 A1 | 01/09/1992 | WIPO | | | Yes No |
| <i>dc</i> | AM1 | WO 93/20242 A1 | 10/14/1993 | WIPO | | | Yes No |
| | AN | | | | | | Yes No |
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| <i>dc</i> | AR | <u>1</u> | Akiyama, H., et al., "Inflammation and Alzheimer's disease," <i>Neurobiol. Aging</i> 21:383-421, Elsevier Science (May-June 2000) |
| <i>dc</i> | AS | <u>1</u> | Backstrom, J.R., et al., "Matrix Metalloproteinase-9 (MMP-9) Is Synthesized in Neurons of the Human Hippocampus and Is Capable of Degrading the Amyloid- β Peptide (1-40)," <i>J. Neurosci.</i> 16:7910-7919, Society for Neuroscience (1996) |
| <i>dc</i> | AT | <u>1</u> | Bahr, B.A., et al., "Stable Maintenance of Glutamate Receptors and Other Synaptic Components in Long-Term Hippocampal Slices," <i>Hippocampus</i> 5:425-439, Wiley-Liss (1995) |

EXAMINER Deborah Crook DATE CONSIDERED 6/28/04

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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| <i>dc</i> | AR | 2 | Bahr, B.A., et al., "Amyloid β Protein is Internalized Selectively by Hippocampal Field CA1 and Causes Neurons to Accumulate Amyloidogenic Carboxyterminal Fragments of the Amyloid Precursor Protein," <i>J. Comp. Neurol.</i> 397:139-147, Wiley-Liss (1998) |
| <i>dc</i> | AS | 2 | Bahr, B., and Lynch, G., "Purification of an Arg-Gly-Asp selective matrix receptor from brain synaptic plasma membranes," <i>Biochem. J.</i> 281:137-142, The Biochemical Society/Portland Press (1992) |
| <i>dc</i> | AT | 2 | Bahr, B.A., et al., "Fibronectin binding by brain synaptosomal membranes may not involve conventional integrins," <i>Neuroreport</i> 2:13-16, Rapid Communications of Oxford (1991) |

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| EXAMINER | <i>Dorothy Conch</i> | DATE CONSIDERED <i>6/28/04</i> |
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| <i>dc</i> | AR | <u>3</u> | Bahr, B.A., et al., "Arg-Gly-Asp-Ser-Selective Adhesion and the Stabilization of Long-Term Potentiation: Pharmacological Studies and the Characterization of a Candidate Matrix Receptor," <i>J. Neurosci.</i> 17:1320-1329, Society for Neuroscience (1997) |
| <i>dc</i> | AS | <u>3</u> | Bahr, B.A., "Integrin-Type Signaling Has a Distinct Influence on NMDA-Induced Cytoskeletal Disassembly," <i>J. Neurosci. Res.</i> 59:827-832, Wiley-Liss (March 2000) |
| <i>dc</i> | AT | <u>3</u> | Bard, F., et al., "Peripherally administered antibodies against amyloid β -peptide enter the central nervous system and reduce pathology in a mouse model of Alzheimer disease," <i>Nat. Med.</i> 6:916-919, Nature America Inc. (August 2000) |

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| EXAMINER | <i>Deborah Cronin</i> | DATE CONSIDERED <i>09/28/04</i> |
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| <i>de</i> | AR | <u>4</u> | Barrett, A.J., and Kirschke, H., "Cathepsin B, Cathepsin H, and Cathepsin L," <i>Meth. Enzymol.</i> 80:535-561, Academic Press (1981) |
| <i>de</i> | AS | <u>4</u> | Beattie, E.C., et al., "Regulation of AMPA receptor endocytosis by a signaling mechanism shared with LTD," <i>Nat. Neurosci.</i> 3:1291-1300, Nature America Inc. (December 2000) |
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| EXAMINER | <i>Deborah Cronk</i> | DATE CONSIDERED |
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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| <i>dc</i> | AR | 5 | Bednarski, E., and Lynch, G., "Selective suppression of cathepsin L results from elevations in lysosomal pH and is followed by proteolysis of tau protein," NeuroReport 9:2089-2094, Rapid Science (1998) |
| <i>dc</i> | AS | 5 | Bi, X., et al., "Polarized Distribution of α 5 Integrin in Dendrites of Hippocampal and Cortical Neurons," J. Comp. Neurol. 435:184-193, Wiley-Liss (June 2001) |
| <i>dc</i> | AT | 5 | Bi, X., et al., "Novel Cathepsin D Inhibitors Block the Formation of Hyperphosphorylated Tau Fragments in Hippocampus," J. Neurochem. 74:1469-1477, Lippincott Williams & Wilkins (April 2000) |

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| EXAMINER | <i>Deborah Cronel</i> | DATE CONSIDERED <i>04/28/04</i> |
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FORM PTO-1449

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| <i>dc</i> | AR | <u>6</u> | Brion, J.-P., et al., "Neurofilament Monoclonal Antibodies RT97 and 8D8 Recognize Different Modified Epitopes in Paired Helical Filament- τ in Alzheimer's Disease," <i>J. Neurochem.</i> 60:1372-1382, Raven Press (1993) |
| <i>dc</i> | AS | <u>6</u> | Bruce, A.J., et al., " β -Amyloid toxicity in organotypic hippocampal cultures: Protection by EUK-8, a synthetic catalytic free radical scavenger," <i>Proc. Natl. Acad. Sci. USA</i> 93:2312-2316, National Academy of Sciences (1996) |
| <i>dc</i> | AT | <u>6</u> | Burkin, D.J., et al., "A Functional Role for Specific Spliced Variants of the $\alpha 7\beta 1$ Integrin in Acetylcholine Receptor Clustering," <i>J. Cell Biol.</i> 143:1067-1075, The Rockefeller University Press (1998) |

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| <i>dc</i> | AR | 7 | Burnashev, N., et al., "Control of Asparagine Residues of Calcium Permeability and Magnesium Blockade in the NMDA Receptor," <i>Science</i> 257:1415-1419, American Association for the Advancement of Science (1992) |
| <i>dc</i> | AS | 7 | Busciglio, J., et al., "Generation of β -amyloid in the secretory pathway in neuronal and nonneuronal cells," <i>Proc. Natl. Acad. Sci. USA</i> 90:2092-2096, National Academy of Sciences (1993) |
| <i>dc</i> | AT | 7 | Callahan, L.M., et al., "Quantitative Decrease in Synaptophysin Message Expression and Increase in Cathepsin D Message Expression in Alzheimer Disease Neurons Containing Neurofibrillary Tangles," <i>J. Neuropathol. Exp. Neurol.</i> 58:275-287, American Association of Neuropathologists (March 1999) |

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| <i>dc</i> | AS | 9 | Chazot, P.L., "CP-101606," <i>Curr. Opin. Investig. Drugs</i> 1:370-374, PharmaPress (November 2000) |
| <i>dc</i> | AT | 9 | Chen, C., et al., "'Analogous' Organic Synthesis of Small-Compound Libraries: Validation of Combinatorial Chemistry in Small-Molecule Synthesis," <i>J. Am. Chem. Soc.</i> 116:2661-2662, American Chemical Society (1994) |

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| <i>Deborah Cronin</i> | <i>9/28/04</i> |

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| | | APPLICANT Lynch et al. | |
| | | FILING DATE September 25, 2001 | GROUP 1632 |

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FOREIGN PATENT DOCUMENTS

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| <i>dc</i> | AR | <u>10</u> | Chun, D., et al., "Evidence that Integrins Contribute to Multiple Stages in the Consolidation of Long Term Potentiation in Rat Hippocampus," <i>Neurosci.</i> 105:815-829, Elsevier Science (August 2001) |
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| EXAMINER | <i>Deborah Cronin</i> | DATE CONSIDERED <i>6/26/04</i> |
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| <i>dc</i> | AT | <u>15</u> | Harper, J.D., and Lansbury, Jr., P.T., "Models of Amyloid Seeding in Alzheimer's Disease and Scrapie: Mechanistic Truths and Physiological Consequences of the Time-Dependent Solubility of Amyloid Proteins," <i>Annu. Rev. Biochem.</i> 66:385-407, Annual Reviews Inc. (1997) |

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| <i>dc</i> | AR | <u>16</u> | Harris-White, M.E., et al., "Effects of Transforming Growth Factor- β (Isoforms 1-3) on Amyloid- β Deposition, Inflammation, and Cell Targeting in Organotypic Hippocampal Slice Cultures," <i>J. Neurosci</i> 18:10366-10374, Society for Neuroscience (1998) |
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| EXAMINER | <i>Deborah Croad</i> | DATE CONSIDERED |
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| FORM PTO-1449 FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT | | ATTY. DOCKET NO. 1819.0040001/MAC/LBB | | APPLICATION NO. 09/961,381 | |
| | | APPLICANT Lynch et al. | | | |
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| EXAMINER | <i>Deborah Crouch</i> | DATE CONSIDERED |
| | | <i>6/28/04</i> |

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| EXAMINER | <i>Deborah Cronk</i> | DATE CONSIDERED |
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| EXAMINER | <i>Deborah Cronch</i> | DATE CONSIDERED |
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| EXAMINER | <i>Deborah Conch</i> | DATE CONSIDERED <i>ep8/04</i> |
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| <i>dc</i> | AS | <u>24</u> | NCBI Entrez, Genbank Report, Accession No. D00466, Rajavashisth, T.B., et al. (1993) |
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| EXAMINER | <i>Deborah Crouse</i> | DATE CONSIDERED | <i>6/28/04</i> |
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| <i>dc</i> | AR | <u>25</u> | Nemerow, G.R., and Stewart, P.L., "Role of α_v Integrins in Adenovirus Cell Entry and Gene Delivery," <i>Microbiol. Mol. Biol. Rev.</i> 63:725-734, American Society for Microbiology (September 1999) |
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| EXAMINER <i>Deborah Cook</i> | DATE CONSIDERED <i>6/28/04</i> |
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| <i>dc</i> | AT | <u>28</u> | Rao, V.L.R., et al., "Neuroprotection by memantine, a non-competitive NMDA receptor antagonist after traumatic brain injury in rats," <i>Brain Res.</i> 911:96-100, Elsevier Science B.V. (August 2001) |

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| EXAMINER | <i>Deborah Cronk</i> | DATE CONSIDERED <i>6/28/04</i> |
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FORM PTO-1449

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 ATTY. DOCKET NO.
 1819.0040001/MAC/LBB

 APPLICATION NO.
 09/961,381

 APPLICANT
 Lynch et al.

 FILING DATE
 September 25, 2001

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 1632

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| EXAMINER | <i>Deborah Cramd</i> | DATE CONSIDERED |
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EXAMINER

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Deborah Croad

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